



AS STAFF DIRECTOR FOR

OCT 29 10 09 AM '04

## Department of Energy

Brookhaven Site Office  
P.O. Box 5000  
Upton, New York 11973

RECORDED  
OCT 28 2004  
UPTON, NY

Dr. Praveen Chaudhari, Director  
Brookhaven Science Associates, LLC  
Brookhaven National Laboratory  
Upton, New York 11973

Dear Dr. Chaudhari:

SUBJECT: MODIFICATION NO. A122 TO CONTRACT NO. DE-AC02-98CH10886

Enclosed for your records is a signed copy of the subject contract modification, which unilaterally increases the amount of funds obligated hereunder by \$49,369,823.15 to a total of \$3,016,708,435.67.

This obligation does not affect expenditures limitations, which are applicable, and which the Laboratory may have been advised of separated from contract actions.

Sincerely,

Robert P. Gordon  
Contracting Officer

Enclosure:  
Form SF30 (Amendment of Solicitation/Modification of contract)

cc: M. Masterson, GC-61, FORS, w/o encl.  
G. Peabody, CR-CRB, CH, w/o encl. (Fax)  
R. Ahlberg MA-PMS, CH, w/encl.  
C. Williams, CR-CRA, CH, w/o encl.  
F. D'Agostino, BHSO, w/encl.  
B. Sack, BSA, w/encl.  
G. Ogeka, BSA, w/encl.  
D. Johnson, BSA, w/o encl.  
M. Israel, BSA, w/encl.  
R. Melucci, BSA, w/o encl.  
R. Kito, BSA, w/encl.  
M. Laster, BSA, w/encl.  
N. Michelsen, BSA, w/encl. (All)  
L. Marascia, BSA, w/o encl.

CHICAGO OPERATIONS OFFICE  
 FY 2005 APPROVED FUNDING PROGRAM NO.: 1 - PROJ NO.: A122  
 BROOKHAVEN NATIONAL LABORATORY(BNL) - CONTRACT NO.: CR10886  
 SUMMARY

APPROPRIATION FT CH BAR CONTROL.	BUDGET AUTHORITY (BA)			ESTIMATED COST CEILING			ENDING UNCOSTED OBLIGATIONS		
	BEGINNING UNCOSTED OBLIGATIONS		NEW BA	TOTAL	AVAILABLE	CHANGE	REVISED	REvised	REvised
	CHANGE	REVISED							
<b>OPERATING EXPENSES</b>									
892/30/309.91 DEFENSE NUCLEAR NONPROLIFERATI NP MN-40-00-00-0 ANPS CONTROL & NONPROLIF	.00	.00	.00	.00	.00	.00	.00	.00	.00
MM-50-00-00-0 INT'L MAT PROTECTION & ENERG	.00	.00	.00	.00	.00	.00	.00	.00	.00
890/2/13.91 FOSSIL ENERGY R & D	.00	.00	.00	.00	.00	.00	.00	.00	.00
JA AA-20-25-00-0 ADV RESEARCH & ENVIRO TECHNOLOG	.00	.00	.00	.00	.00	.00	.00	.00	.00
AA-30-10-00-0 GREENHOUSE GAS CONTROL	.00	.00	.00	.00	.00	.00	.00	.00	.00
AB-05-40-00-0 EXPLORATION AND PRODUCTION	.00	.00	.00	.00	.00	.00	.00	.00	.00
AB-05-45-00-0 DELIVERY AND STORAGE	.00	.00	.00	.00	.00	.00	.00	.00	.00
AB-05-45-00-0 GAS HYDRATES	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-10-15-00-0 EXPLORATN & PROD SUPPORT RESEAR	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-10-15-00-0 EXPLORATN & PROD ENVIRO RESEARC	.00	.00	.00	.00	.00	.00	.00	.00	.00
89/15/91 CONSERVATION	.00	.00	.00	.00	.00	.00	.00	.00	.00
VA BT-00-00-00-0 BUILDING TECHNOLOGIES	.00	73,935.00	73,935.00	73,935.00	395,000.00	395,000.00	395,000.00	321,017.00	321,017.00
EF-07-00-00-0 EMERGENCY ENERGY CONSERVNT ACT	.00	.00	.00	.00	.00	.00	.00	.00	.00
ER-00-00-00-0 POLICY AND MANAGEMENT	.00	.00	.00	.00	.00	.00	.00	.00	.00
EJ-17-00-00-0 FEDERAL ENERGY MGMT PROGRAM	.00	.00	.00	.00	.00	.00	.00	.00	.00
ED-01-00-00-0 DISTRIBUTED ENERGY RESOURCES	.00	.00	.00	.00	.00	.00	.00	.00	.00
HI-00-00-00-0 RBL CELL TECHNOLOGIES	.00	61,809.00	61,809.00	61,809.00	330,000.00	330,000.00	330,000.00	268,191.00	268,191.00
VI-00-00-00-0 VEHICLE TECHNOLOGIES	.00	.00	.00	.00	.00	.00	.00	.00	.00
89/0/2/16.91 ENERGY INFORMATION ADMIN	.00	.00	.00	.00	.00	.00	.00	.00	.00
NK TA-00-00-00-0 NAT'L ENERGY INFO SYST (NEIS)	.00	.00	.00	.00	.00	.00	.00	.00	.00
89/0/2/18.91 STRATEGIC PETROLEUM RESERVE	.00	.00	.00	.00	.00	.00	.00	.00	.00
DA SA-07-00-00-0 MANAGEMENT	.00	.00	.00	.00	.00	.00	.00	.00	.00
89/0/2/22.91 GEN SCIENCES ACT	.00	.00	.00	.00	.00	.00	.00	.00	.00
WA FS-10-00-00-0 SAFEGUARDS & SECURITY-SCIENCE	.00	1,409,717.00	1,409,717.00	1,409,717.00	10,536,000.00	10,536,000.00	10,536,000.00	9,126,283.00	9,126,283.00
KX-11-00-00-0 PROTON ACCELERATOR-BASED PHYS	.00	1,501,681.00	1,501,681.00	1,501,681.00	13,461,000.00	13,461,000.00	13,461,000.00	11,659,919.00	11,659,919.00
KX-14-00-00-0 THEORETICAL PHYSICS	.00	303,458.00	303,458.00	303,458.00	2,268,000.00	2,268,000.00	2,268,000.00	1,864,542.00	1,864,542.00
KX-15-00-00-0 ADVANCED TECHNOLOGY R&D	.00	664,985.00	664,985.00	664,985.00	4,970,000.00	4,970,000.00	4,970,000.00	4,305,014.00	4,305,014.00
KX-00-00-00-0 NUCLEAR PHYSICS	.00	17,947,758.00	17,947,758.00	17,947,758.00	134,139,000.00	134,139,000.00	134,139,000.00	116,191,232.00	116,191,232.00
KZ-02-00-00-0 MATERIALS SCIENCES	.00	6,312,604.00	6,312,604.00	6,312,604.00	46,451,578.00	46,451,578.00	46,451,578.00	40,158,974.00	40,158,974.00
KZ-03-00-00-0 CHEMICAL SCIENCES	.00	1,261,055.00	1,261,055.00	1,261,055.00	9,425,000.00	9,425,000.00	9,425,000.00	8,163,935.00	8,163,935.00
KZ-06-00-00-0 EXCESS FACILITIES DISPOSITION	.00	40,140.00	40,140.00	40,140.00	300,000.00	300,000.00	300,000.00	259,850.00	259,850.00
KZ-08-00-00-0 COMPUTATIONAL & TECH RESEARCH	.00	.00	.00	.00	.00	.00	.00	.00	.00
KX-00-00-00-0 WORKFORCE DEVELOPMENT/TEACHERS	.00	95,533.00	95,533.00	95,533.00	714,000.00	714,000.00	714,000.00	618,447.00	618,447.00
KP-00-00-00-0 BIOLOGICAL & ENVIRONMENTAL RES	.00	2,203,418.00	2,203,418.00	2,203,418.00	16,448,000.00	16,448,000.00	16,448,000.00	14,364,582.00	14,364,582.00
YN-01-00-00-0 UNDISTRIBUTED COSTS	.00	.00	.00	.00	.00	.00	.00	.00	.00

## BUDGET AUTHORITY (BA)

APPROPRIATION FT CH BAR CONTROL	NEW BA		TOTAL		ESTIMATED COST CEILING		ENDING UNCOSTED OBLIGATIONS	
	BEGINNING UNCOSTED OBLIGATIONS	CHANGE	REVISED	AVAILABLE	CHANGE	REVISED	CHANGE	REvised
LP KA-15-00-00-0 ADVANCED TECHNOLOGY R&D	.00	.00	.00	.00	.00	.00	.00	.00
W FS-10-00-00-0 SAFEGUARDS & SECURITY-SCIENCE	.00	.00	.00	.00	.00	.00	.00	.00
89002026.91 ENERGY SUPPLY, RD YA AF-35-00-00-0 GENERATION IV NUCLEAR ENERGY'S AF-45-00-00-0 NUCLEAR ENERGY OPTIMIZATION	.00	29,624.00	29,624.00	29,624.00	220,000.00	220,000.00	200,376.00	200,376.00
AF-58-00-00-0 ADVANCED FUEL CYCLE INITIATIVE	.00	54,740.00	54,740.00	54,740.00	425,000.00	425,000.00	370,260.00	370,260.00
AF-70-00-00-0 ADV RADIOSOTHE POWER SYSTEMS	.00	56,672.00	56,672.00	56,672.00	440,000.00	440,000.00	365,320.00	365,320.00
EH-21-00-00-0 SOLAR ENERGY	.00	56,672.00	56,672.00	56,672.00	.00	.00	.00	.00
BB-40-00-00-0 GEOTHERMAL	.00	.00	.00	.00	.00	.00	.00	.00
BB-55-00-00-0 DEPARTMENT ENERGY MANAGEMENT	.00	.00	.00	.00	.00	.00	.00	.00
HC-00-00-00-0 E, S & H (NON-DEFENSE)	.00	51,520.00	51,520.00	51,520.00	75,000.00	75,000.00	75,000.00	75,000.00
TD-50-00-00-0 RESEARCH & DEVELOPMENT	.00	.00	.00	.00	400,000.00	400,000.00	348,480.00	348,480.00
LB-00-00-00-0 IN-HOUSE ENERGY MANAGEMENT	.00	.00	.00	.00	.00	.00	.00	.00
WT-01-00-00-0 INTERGOVERNMENTAL ACTIVITIES	.00	.00	.00	.00	.00	.00	.00	.00
89002028.91 DEPART ADMIN SA SA-07-00-00-0 MANAGEMENT	.00	.00	.00	.00	.00	.00	.00	.00
LN-00-00-00-0 COST OF WORK FOR OTHERS	.00	76,877.00	76,877.00	76,877.00	572,000.00	572,000.00	495,123.00	495,123.00
89002040.91 WEAPONS ACTIVITY	.00	13,380.00	13,380.00	13,380.00	100,000.00	100,000.00	86,620.00	86,620.00
TC DP-09-00-00-0 READINESS IN TECHNICAL BASE AN DP-40-00-00-0 NUCLEAR WEAPONS INCIDENT RESPON	.00	138,485.00	138,485.00	138,485.00	1,035,000.00	1,035,000.00	896,517.00	896,517.00
89002042.91 ATOMIC ENERGY DEFENSE TE ID-00-00-00-0 E, S & H (DEFENSE)	.00	.00	.00	.00	.00	.00	.00	.00
89002043.91 MATERIAL PRODUCTION & OTHER	.00	.00	.00	.00	.00	.00	.00	.00
TF AF-58-00-00-0 ADVANCED FUEL CYCLE INITIATIVE	.00	.00	.00	.00	.00	.00	.00	.00
DV-DG-00-00-0 COUNTERINTELLIGENCE	.00	.00	.00	.00	.00	.00	.00	.00
CS-00-00-00-0 CYBER SECURITY PROGRAM	.00	.00	.00	.00	.00	.00	.00	.00
CD-00-00-00-0 NUCLEAR SAFEGUARDS & SECURITY	.00	.00	.00	.00	.00	.00	.00	.00
ID-00-00-00-0 E, S & H (DEFENSE)	.00	.00	.00	.00	.00	.00	.00	.00
IN-00-00-00-0 INTELLIGENCE	.00	.00	.00	.00	.00	.00	.00	.00
89002049.91 DEFENSE ENVIRONMENTAL Mgmt PRI TQ EH-07-00-00-0 DEFENSE ENVIRON-MULTI-SITE ACTIV	.00	.00	.00	.00	.00	.00	.00	.00
EY-08-00-00-0 DEFENSE ENVIRONMENTAL SERVICES	.00	5,527,200.00	5,527,200.00	5,527,200.00	37,095,300.00	37,095,300.00	31,568,100.00	31,568,100.00
8900250.91 NON-DEFENSE ENVIRONMENTAL Mgmt	.00	768,801.00	768,801.00	768,801.00	5,159,737.00	5,159,737.00	4,350,936.00	4,350,936.00

CHICAGO OPERATIONS OFFICE  
FY 2005 APPROVED FUNDING PROGRAM NO.: 1 - MOD NO.: A122  
BROOKHAVEN NATIONAL LABORATORY(BNL) - CONTRACT NO.: CH10886  
SUMMARY

APPROPRIATION FT CH BAR CONTROL	BUDGET AUTHORITY (BA)				ESTIMATED COST CEILING			ENDING UNCOSTED OBLIGATIONS
	BEGINNING UNCOSTED OBLIGATIONS	NEW BA		TOTAL AVAILABLE	CHANGE	REVISED		
		CHANGE	REVISED		CHANGE	REVISED		
89X0251.91 TP EY-40-00-00-0 DEFENSE SITE ACES COMPLETION	.00	.00	.00	.00	.00	.00	.00	.00
89X01309.91 DEFENSE NUCLEAR NONPROLIFERATI NK AA-30-00-00-0 INT'L NUCLEAR SAFETY & COOP NN-41-00-00-0 RUSSIAN TRANSITION INITIATIVES NS NN-20-00-00-0 NONPROLIF & VERIFY RAD NN-30-00-00-0 INT'L NUCLEAR SAFETY & COOP NN-31-00-00-0 HEU TRANS IMPLEMENTATION NN-40-00-00-0 ARMS CONTROL & NONPROLIF NN-41-00-00-0 RUSSIAN TRANSITION INITIATIVES NN-50-00-00-0 INT'L MAT PROTECTION & EMERG NU NN-40-00-00-0 ARMS CONTROL & NONPROLIF NN-50-00-00-0 INT'L MAT PROTECTION & EMERG	.00	.00	.00	.00	.00	.00	.00	
89X4180.91 ISOTOPE PROD & DISTRIBUTION PR VE ST-00-00-00-0 ISOTOPE PROD & DISTRIBTN PROG VP ST-00-00-00-0 ISOTOPE PROD & DISTRIBTN PROG	.00	260,000.00	260,000.00	260,000.00	260,000.00	260,000.00	.00	.00
TOTAL OPERATING EXPENSES	.00	41,560,890.00	41,560,890.00	41,560,890.00	313,336,365.00	313,336,365.00	271,775,475.00-	
<b>CAPITAL EQUIPMENT</b>								
89X0213.91 FOSSIL ENERGY R & D JA AA-30-10-00-0 GREENHOUSE GAS CONTROL	.00	.00	.00	.00	.00	.00	.00	.00
89X0222.91 GEN SCIENCES ACT KA KA-11-00-00-0 PROTON ACCELERATOR-BASED PHY KA-15-00-00-0 ADVANCED TECHNOLOGY RAD KB-00-00-00-0 NUCLEAR PHYSICS KC-02-00-00-0 MATERIALS SCIENCES KC-03-00-00-0 CHEMICAL SCIENCES KJ-00-00-00-0 COMPUTATIONAL & TECH RESEARCH KP-00-00-00-0 BIOLOGICAL & ENVIRONMENTAL RES	.00	171,265.00	171,265.00	171,265.00	1,280,000.00	1,280,000.00	1,108,735.00-	
89X4180.91 ISOTOPE PROD & DISTRIBUTION PR VE ST-00-00-00-0 ISOTOPE PROD & DISTRIBTN PROG	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL CAPITAL EQUIPMENT	.00	2,357,289.00	2,357,289.00	2,357,289.00	17,618,000.00	17,618,000.00	15,260,711.00-	

CHICAGO OPERATIONS OFFICE  
FY 2005 APPROVED FUNDING PROGRAM NO.: 1 - MCD NO.: A122  
BROOKHAVEN NATIONAL LABORATORY(BNL) - CONTRACT NO.: CR10886  
SUMMARY

APPROPRIATION F/T CH BAR CONTROL	BUDGET AUTHORITY (BA)			ESTIMATED COST CEILING			ENDING UNCOSTED OBLIGATIONS		
	BEGINNING UNCOSTED OBLIGATIONS	NEW BA CHANGE	REVISED	TOTAL AVAILABLE	CHANGE	REVISED			
	<u>CONSTRUCTION</u>								
<u>REINBURSABLE WORK</u>									
690222.91 GEN SCIENCES ACT									
1A 39-XC-00-00-0 BASIC ENERGY SCIENCES	.00	2,012,000.00	2,012,000.00	20,477,000.00	20,477,000.00	20,477,000.00			
1A 39-XG-00-00-0 PROTON ACCELERATOR-BASED PHY	.00	598,480.00	598,480.00	4,458,000.00	4,458,000.00	4,458,000.00			
1A-11-00-00-0 NUCLEAR PHYSICS	.00	1,265,347.00	1,265,347.00	.00	.00	.00			
1B-00-00-00-0 MATERIALS SCIENCES	.00	73,590.00	73,590.00	9,457,000.00	9,457,000.00	9,457,000.00			
1C-02-00-00-0 ENERGY SUPPLY,R&D	.00			550,000.00	550,000.00	550,000.00			
1A 39-XB-00-00-0 IN-HOUSE ENERGY MANAGEMENT	.00	.00	.00	.00	.00	.00			
TOTAL CONSTRUCTION	.00	3,947,417.00	3,947,417.00	34,942,000.00	34,942,000.00	34,942,000.00			
<u>TRANSFERS</u>									
690224.92 REINBURSABLE									
2Y 60-00-00-00-0 COST OF REINS WORK FOR NON-FED	.00	529,696.62	529,696.62	529,696.62	529,696.62	529,696.62			
690224.93 ENERGY SUPPLY,R&D									
3Y 40-00-00-00-0 COST OF REINS WORK FOR OFA	.00	681,597.33	681,597.33	681,597.33	681,597.33	681,597.33			
690224.95 EN SUP RES & DEV ACT TECH TRA									
1Y 65-00-00-00-0 THIRD PARTY REC FROM TECH TRA	.00	98,819.20	98,819.20	98,819.20	98,819.20	98,819.20			
690240.95 WEAPONS ACTIVITY									
3Y 40-00-00-00-0 COST OF REINS WORK FOR OFA	.00	194,114.00	194,114.00	194,114.00	194,114.00	194,114.00			
TOTAL REINBURSABLE WORK	.00	1,504,227.15	1,504,227.15	1,504,227.15	1,504,227.15	1,504,227.15			
<u>FINANCIAL SERVICES</u>									
690222.91 GEN SCIENCES ACT									
1A 39-XB-00-00-0 WORK PERF FOR OTHER DOE LOC	.00	.00	.00	.00	.00	.00			
TOTAL TRANSFERS	.00	.00	.00	.00	.00	.00			

CHICAGO OPERATIONS OFFICE  
 FY 2005 APPROVED FUNDING PROGRAM NO.: 1 - MOD NO.: A122  
 BROOKHAVEN NATIONAL LABORATORY(BNL) - CONTRACT NO.: CH10886  
 SUMMARY

## BUDGET AUTHORITY (BA)

APPROPRIATION FT CH BAR CONTROL	NEW BA			ESTIMATED COST CEILING			ENDING UNCOSTED OBLIGATIONS
	BEGINNING UNCOSTED OBLIGATIONS	CHANGE	REVISED	TOTAL AVAILABLE	CHANGE	REVISED	
GRAND TOTAL:	.00	49,369,823.15	49,369,823.15	49,369,823.15	367,400,592.15	367,400,592.15	318,030,769.00-

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 \* Certification of Funds Availability:  
 \*  
 \* Susan M. Antle 10/27/04  
 \* Certifying Official Date  
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